

KPDES PERMITS

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Division of Compliance Assistance Environmental Assistance Workshop 2018



To Protect and Enhance Kentucky's Environment



What is KPDES?

- KY Pollutant Discharge Elimination System
 - Goal is to protect water quality.
 - Plan is to limit the amount of pollutants that are discharged from a point source to waters of the Commonwealth.
 - Commitment is to issue permits to POTWs and industries minimizing the discharge of pollutants.
- Point Source
 - Pipe, ditch, channel, tunnel, conduit, fissure, or container
- Stormwater and wastewater carry pollutants



Division of Water



Who Needs a KPDES Permit?

- Any facility or activity that causes a discharge of pollutants into a ditch, stream, river, lake, or other surface water.
 - Industrial facilities
 - Construction activities
 - Municipalities
 - Agricultural operations
 - Power plants
 - **Any** facility can be required to obtain a permit when water quality problems are present.



Types of KPDES Permits

Who, What, When, Where, How, Why	INDIVIDUAL PERMIT	GENERAL PERMIT
Facility or Activity	Any discharger	Defined by eligibility
Wastewater Effluent	Site specific	Defined by eligibility
Permit Application	Site specific information	General facility information
Discharge Limits / Monitoring Requirements	Unique to single applicant	Same for all
Permit	Issued to one facility	Issued to multiple facilities
Cost	\$1,200 - \$7,000	\$0 - \$1,300

Which is right for your facility?

Developing KY General Permits

- Similar type of facility or activity
- Same operating conditions
- Similar wastewater from a specific activity
- Same permitted effluent limits
- Same monitoring requirements

Coal Mining Operations
Asphalt and Concrete Plants
Highway Maintenance Facilities

Effluent Monitoring Requirements							
Effluent Characteristic	Units	Minimum	Monthly Average	Daily Maximum	Maximum	Frequency	Sample Type
Flow	MGD	N/A	Report	Report	N/A	2/Year	Instantaneous
TSS	mg/l	N/A	Report	Report	N/A	2/Year	Grab
Oil & Grease	mg/l	N/A	Report	Report	N/A	2/Year	Grab
pH	Standard Units	Report	N/A	N/A	Report	2/Year	Grab

The abbreviation N/A in the preceding table means Not Applicable.



Division of Waste Management



Kentucky's General Permits

<http://water.ky.gov/permitting/Pages/GeneralPermits.aspx>

- KYGO4 coal mining operations ~ 1100
- KYG11 concrete and asphalt plants ~ 190
- KYG12 orphan landfills ~ 200
- KYG15 airports ~ 120
- KYG20 municipal separate storm sewer systems ~ 50
- KYG40 individual residences ~ 900
- KYG50 KYDOT maintenance facilities ~ 130
- KYG64 drinking water production ~ 90
- KYG76 public swimming pools ~ no application
- KYG84 mineral mining ~ 200
- KYG99 pesticide application ~ no application

WASTEWATER

- **KYR00 industrial stormwater ~ 850**
- **KYR10 construction stormwater ~ 900**

STORMWATER

- KNDOP closed loop systems ~ 500
- KNDOP animal feeding operations ~ 530

NO DISCHARGE



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Stormwater Associated with Industrial Activity

Stormwater that is related to manufacturing, processing, or raw materials storage areas, including stormwater that comes in contact with and discharges from:

- industrial plant yards;
- immediate access roads and rail lines used to carry raw materials, manufactured products, waste material, or by-products used or created by the facility;
- material handling* sites;
- refuse sites, and sites used for the application or disposal of process wastewaters;
- sites used for the storage and maintenance of material handling* equipment;
- sites used for residual treatment, storage, or disposal;
- shipping and receiving areas;
- manufacturing buildings;
- storage areas (including tank farms) for raw materials, and intermediate and final products; and
- areas where industrial activity has taken place in the past, and significant materials remain and are exposed to storm water.

*Material handling activities include storage, loading and unloading, transportation, or conveyance of any raw material, intermediate product, final product, by-product, or waste product.

Facilities Considered Industrial Activity

Industrial activities defined by 40 CFR 122.26

- (i) Facilities subject to stormwater effluent guidelines, new source performance standards, or toxic pollutant effluent standards
- (ii) "Heavy" industrial facilities (i.e., rock crushing)
- (iii) "Light" industrial facilities (i.e., mineral industry)
- (iv) Hazardous waste treatment storage disposal facilities
- (v) Landfills
- (vi) Recycling facilities
- (vii) Steam electric power
- (viii) Transportation facilities
- (ix) Sewage treatment plants
- (x) Construction activity
- (xi) Light manufacturing facilities – food, clothing, furniture, packaging, medicine, plastic storage products, glass products, cars, etc.

Storm Water Discharge Associated with Industrial Activity (40 CFR 122.26(b)(14)(i) - (xi))

- Facilities subject to storm water effluent limitation guidelines; new source performance standards, or toxic pollutant effluent standards under 40 CFR Subchapter N.
- "Heavy" industrial facilities with SIC codes listed in 40 CFR 122.26(b)(14)(ii), (iii), and (vi)
- "Light" industrial facilities with SIC codes listed in 40 CFR 122.26(b)(14)(xi), which conduct the activities specified in that sections.
- Hazardous waste treatment, storage, or disposal facilities.
- Landfills, land application sites, and open dumps that receive or have received industrial waste.
- Steam electric power generating facilities.
- Sewage treatment works.
- Construction activity (including clearing, grading, and excavation) disturbing five or more acres of land, or less than five acres of land if it is part of a larger common plan of development or sale of five acre or greater.



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Eligibility for General Permit KYR00

- Defined industrial activity
 - Manufacturing
 - Processing
 - Storing raw materials
- NOT eligible
 - Need individual KPDES permit
 - Discharge to impaired water body
 - Identified by EPA's effluent guideline



REGULATED DISCHARGE NOT ELIGIBLE

Runoff from material storage piles at cement manufacturing facilities
Runoff from phosphate fertilizer manufacturing facilities that comes into contact with any raw materials, finished product, by-products or waste products
Runoff from coal storage piles at steam electric generating facilities
Discharges resulting from spray or intentional wetting of logs at wet decking storage areas
Mine dewatering discharges at crushed stone, construction sand and gravel, or industrial sand mining facilities
Runoff from asphalt emulsion facilities
Runoff from hazardous waste and non-hazardous waste landfills

KYR00 – Monitor the Effluent

- Monitor and report two times per year
 - Flow
 - Total Suspended Solids (TSS)
 - Oil and Grease
 - pH (water quality standards identify acceptable limits 6 – 9)
- Current permit expires May 31, 2018
 - Coverage is extended until new permit is issued
 - Permit provides coverage for 5 years
 - Renewal permit is on public notice until end of April
 - NEW: If TSS reaches 100 mg/l then must adjust BMPs

Effluent Characteristic	Units	Minimum	Monthly Average	Daily Maximum	Maximum	Frequency	Sample Type
Flow	MGD	N/A	Report	Report	N/A	2/Year	Instantaneous
TSS	mg/l	N/A	Report	Report	N/A	2/Year	Grab
Oil & Grease	mg/l	N/A	Report	Report	N/A	2/Year	Grab
pH	SU	Report	N/A	N/A	Report	2/Year	Grab

The abbreviation N/A in the preceding table means Not Applicable.

KYR00 – Non-Numeric Requirements

- Do not create floating solids, foam, or sheen.
- Develop Stormwater Pollution Prevention Plan (SWPPP).
- Design and implement control measures.
- Develop Best Management Practices (BMPs).
- Minimize exposure to processes and storage areas.
- Adopt good housekeeping practices.
- Develop spill prevention and response procedures.
- Manage runoff and run-on.
- Maintain equipment.
- Train employees.



Stormwater Associated with Construction Activities

- Construction and construction-related activity
 - Earth disturbing construction activities
 - Disturbance of greater than one acre
 - Clearing, grading, and excavation
 - Material storage area
 - Borrow area
 - Truck washout area
 - Fueling area
- Exclusions
 - Individual permit
 - Discharge to water body impaired for sediment



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General Permit KYR10 Requirements

- Develop Stormwater Pollution Prevention Plan
 - Provide site description and intended activities.
 - Identify potential pollutant sources.
 - Include site map.
 - Document stormwater controls measures.
 - Develop maintenance plan.
 - Develop inspection plan.
 - Review periodically.
 - Sign and retain copy.



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KYR10 – Practices

- Minimize size and duration of disturbance.
 - Apply erosion control within 24 hours
- Implement final stabilization.
 - Within 14 days of completion
 - When construction is suspended for more than 180 days
- Maintain buffer zone.
 - 25 feet from High Quality Waters
 - 50 feet from sediment impaired waters
- Maintain BMPs.
- No monitoring requirements.



Division of Water



Where are Permit Applications

water.ky.gov

Division of Water | Welcome - Kentucky.gov

water.ky.gov/ ▼

Permit documents, information and links to eNOI forms or paper forms for all Surface Water Discharge permits are available at <http://water.ky.gov/permitting/Pages/WastewaterDischarge.aspx>. General Permits. Click here to learn about general permits for wastewater discharges. In addition to explaining what general permits ...
You've visited this page 2 times. Last visit: 9/5/17

Permitting and Approvals

The Division of Water (DOW) issues permits and approvals ...

Drinking Water

The Division of Water works to ensure public health protection ...

Contact Us

Contact Us. Page Content. Staff Directory Division of Water Staff ...

Wastewater Discharge

All discharges to waters of the Commonwealth require a permit ...

Regulations

The Kentucky Division of Water (DOW) administrative ...

Water Quality

The Water Quality Branch is responsible for monitoring ...

water.ky.gov.permitting

Permitting and Approvals - Kentucky Division of Water - Kentucky.gov

water.ky.gov/permitting ▼

Drinking **water** laboratory certification is based on the Federal Safe Drinking **Water** Act (SDWA). Wastewater laboratory certification is based on the Federal Clean **Water** Act (CWA). ... The Whole Effluent Toxicity (WET) program is managed by the Surface **Water Permits** Branch of **Kentucky** Division of **Water**.

[Water Withdrawal Permitting](#) · [Wastewater Discharge](#) · [Drinking Water Plans Review](#)

Permitting and Approvals | GeneralPermits - Kentucky Division of Water

water.ky.gov/permitting/Pages/GeneralPermits.aspx ▼

For general **permits** for which an eNOI is not available, the Division of **Water** prefers that the Word version of a "paper" NOI be used and the facility submit an electronic copy of the Word file rather than submitting a paper copy. To submit an electronic file, go to <https://dep.gateway.ky.gov/eportal/default.aspx> (this can also be ...




















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General Permits Web Page

General Permits

<input type="checkbox"/> Permit	Description	Effective	Expire
 KNDOP	No Discharge Operational Permit - Closed loop and spray irrigation systems	5/1/2011	4/30/2016*
 KNDOP (AFO)	No Discharge Operational Permit - Small and Medium Animal Feeding Operations (AFO)	10/1/2016	9/30/2021
 KYG04	Coal Mining Operations (Renewal 2014 - permit splits Kentucky east and west - KYGE4 and KYGW4)	10/1/2014	9/30/2019
 KYG05	Inactive Mine Lands	9/1/2016	8/31/2021
 KYG11	Construction Material Manufacturing Operations (concrete and asphalt plants) New General Permit	2/1/2015	1/31/2020
 KYG12	Orphan Landfills with Leachate Discharges	4/1/2015	3/31/2020
 KYG15	General Aviation Airports	9/1/2014	8/31/2019
 KYG40	On-Site Wastewater Treatment Systems Serving Individual Family Residences	8/1/2013	7/31/2018
 KYG50	Highway Maintenance and Equipment Facilities	4/1/2003	3/31/2008*
 KYG64	Drinking Water Production	6/1/2011	5/31/2016*
 KYG76	Public Swimming and Bathing Facilities - New GP	9/1/2016	8/31/2021
 KYG84	Noncoal (Mineral) Mining Operations	2/1/2015	1/31/2020
 KYG99	Pesticide Application	4/1/2012	3/31/2017
 KYR00	Stormwater Associated with Industrial Activities ¹	6/1/2013	5/31/2018
 KYR10	Stormwater Construction ^{2,3}	12/1/2014	11/30/2019
 CO	Change in Ownership Certification	8/2016	N/A
 ND	No Discharge Certification	8/2016	N/A
 NE	Stormwater Associated with Industrial Activities - No Exposure		Note 1
 NOT	Notice of Termination (Terminate coverage for any KPDES General Permit) ²	8/24/2015	N/A
 SDAA	Antidegradation (Additional information for some general and individual permits)	N/A	N/A
 SWPPP	Stormwater Pollution Prevention Plan / Best Management Practices Plan (Additional information for some permits)	N/A	N/A

KYR00
or
KYR10

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Information and Applications

KYR00 - Stormwater Associated with Industrial Activities Effective 6-1-13; Expires 5-31-18

This general permit is available for a facility that would be required to have a KPDES permit due to the discharge of stormwater runoff associated with industrial activity provided the facility meets the eligibility and Notice of Intent (NOI) requirements of this permit. Operators of industrial facilities have the opportunity to certify a condition of "no exposure" if their industrial materials and operations are not exposed to stormwater.

- [Fact Sheet](#)
- ♦ [General Permit](#)
- ▶ [eNOI \(application\)](#) - electronic format - eNOI-KYR00
[eNOI \(application instructions\)](#) - electronic format
- ▶ [eNOT \(termination\)](#) includes instructions - electronic format - KPDES Form eNOT:
NOTE: This termination form is a new form as of 8-24-15
- **Guidance:**
[KYR00 Notice of Intent Guidance Document](#)
[Eligible Facilities](#)
- Stormwater Pollution Prevention Plan (SWPPP)/Best Management Practices (BMP) Plans - [Guidance Documents](#)

KYR10 - Stormwater Construction Effective 12-1-14; Expires 11-30-19

This general permit authorizes the discharge of pollutants in stormwater discharges associated with both small and large construction activities. As used in this permit, "stormwater associated with construction activity" refers to the disturbance of one or more acres or is a part of a larger common plan of development or sale if the larger common plan will ultimately disturb one acre or more.

Paper notices of intent and termination are no longer accepted. Electronic NOI/NOT can be filed using the links below.

- [Fact Sheet](#)
- ♦ [General Permit](#)
- ♦ [Response to Comments](#)
- ▶ [eNOI \(application\)](#) - electronic format - FORM eNOI-SWCA:
NOTE: This Notice of Intent (application) form is a new form as of 8-24-15
- ▶ [eNOT \(termination\)](#) includes instructions - electronic format - KPDES Form eNOT:
NOTE: This termination form is a new form as of 8-24-15
- Stormwater Pollution Prevention Plan (SWPPP)/Best Management Practices (BMP) Plans - [Guidance Documents](#)

Applying for KYR00 or KYR10

Notice of Intent (eNOI)

- Facility operator information
- Facility/site location
- Proposed site activity
- Other environmental permits
- eNOI preparer information
- Site map

Electronic Notice of Intent (eNOI)

- Submittal does not provide coverage.
- Quirks of applying electronically.
 - ATTACHMENTS WILL NOT SAVE IF YOU TIME OUT OR LOG OFF
 - Remember submittal number
 - Remember passwords
 - Remember transmittal number
 - Remember confirmation number
- File eNOT to terminate the permit at completion of the project.

REMEMBER!

➤ **Permit will be sent via e-mail**

➤ **File eNOT
electronic Notice of Termination**



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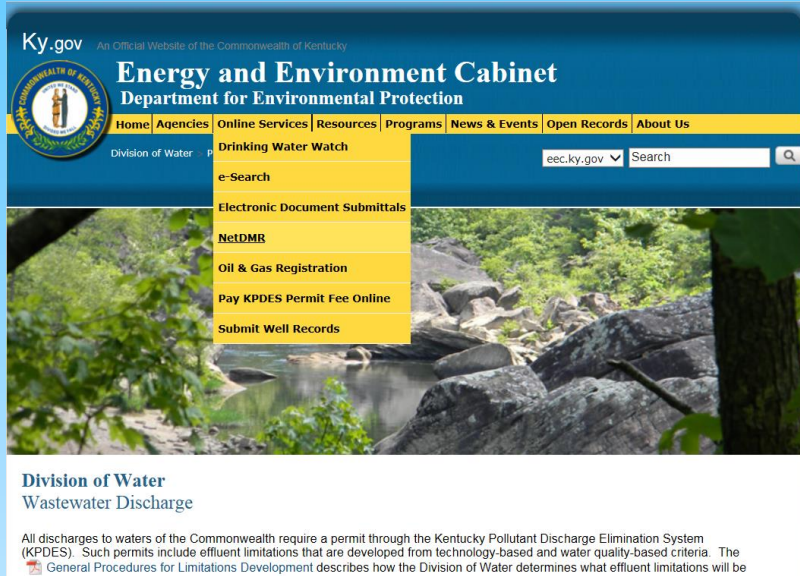
Discharge Monitoring Report for KYR00

- KYR00 has limits for discharging pollutants.
- Collect samples from discharge of stormwater.
- Report data via electronic system – Net DMR.
 - Requirement of your KPDES permit
 - Self-reporting tool to gauge compliance
 - Measures treatment performance
- Submit analyses to DOW and EPA.



Getting Started with NetDMR






- Top of web page



- Four Step Process

Division of Water
NetDMR Information

Surface Water Permits Branch
NetDMR Discharge Monitoring Report Submission Information

	Step 1. Create your personal account in the NetDMR Production (or NetDMR Training Site if you want to use the training site first).
	Step 2. Request access to your permit(s) for your NetDMR Production (or NetDMR Training) account. You must print/sign/mail your subscriber agreement so we can approve your account in NetDMR Production. (Do not print/mail/sign NetDMR Training agreements).
	Step 3. Verify your parameters and limits are the same as those on your permit. If there are discrepancies, email your permit number and a description of the discrepancies to NetDMR@ky.gov . You are now ready to enter and submit your data in the NetDMR Production (or NetDMR Training Site (submissions in NetDMR Training do not satisfy your permit required reporting)).
	Step 4. If your laboratory uploads DMR data for you, review and submission instructions are here.
	COAL Special reporting information for coal mining permittees

- Click Online Services
- Click NetDMR



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Create Your Account

- Step 1. Create



NetDMR

Welcome

Welcome to the KY DEP installation of NetDMR! If you are a permittee, you may be able to use this Web site to complete and submit DMRs electronically for your facility.

New to NetDMR?

First time users can register for a new account.
If you have any questions about NetDMR, please contact Cheryl.Edwards@ky.gov.


News

Login to NetDMR

User Name
Password

Submit

- Step 2. Request access to your permit



Permittee User Home

Home | My Account | Request Access | Help | Logout

User: shawn.hokanson00@gmail

NetDMR

Search: All DMRs & CORs

Import DMRs: Perform Import, Check Results

Download: Blank DMR Form

Session

Search: All DMRs & CORs

Last 10 Logins: 2/4/13 10:4

All DMRs & Copies of Record (CORs)

Request Access to Permits and Associated DMRs

Enter the ID for the permit whose DMRs you would like to access and click the Update button to see the roles that you can request access to. Repeat this process for each permit you would like to request access to. You can make one or more access requests from this screen.

Permit ID: KY0106909 Update

Role: Select One

Note: Permit Administrator Role comes with the first Signatory Role requested for a Permit.

Add Request

- Ensure permit number matches DMR before collecting samples.
- Collect samples and analyze by certified lab.
- Review monitoring data.
- Enter monitoring data.

Entering Data to Net DMR

• Step 3. Enter data

Enter and View DMRs

Edit DMR

Expand Header

Permit ID: **KY0166600** | Permitted Feature ID: **001** | Discharge: **1** | Monitoring End Period: **10/31/11** | DMR Due Date: **11/28/11** | Status: **NetDMR Validation Errors**

Form NOD1:

Parameter Code	Name	NOD1 List	Quantity or Loading			Quality or Concentration			# of Ex.	Freq. of Analysis (List)	Smpl. Type (List)
			Value 1	Value 2	Units	Value 1	Value 2	Units			
00400	pH	Smpl.									
1 - Effluent Gross											
Season: 0		Req.									
NOD1:		NOD1									
00500	Solids, total suspended	Smpl.									
1 - Effluent Gross											
Season: 0		Req.									
NOD1:		NOD1									
00502	Oil and grease	Smpl.									
1 - Effluent Gross											
Season: 0		Req.									
NOD1:		NOD1									
00505	Flow, in conduit or thru treatment plant	Smpl.									
1 - Effluent Gross											
Season: 0		Req.									
NOD1:		NOD1									
Edit Check Errors											
Code	Name	Monitoring Location	Field	Type	Description						
00400	pH	Effluent Gross	Quality or Concentration Sample Value 1	Soft	The provided sample value is outside the permit limit						

Enter your values- there may be multiple pages to file out depending upon your permit. If a value entered will cause a violation, you must fix the data entry error or acknowledge that this will generate a violation. Illegal values (hard errors like parameter value and NOD1 code both entered must be fixed.

• Step 4. Submit

Enter and View DMRs

Search All DMRs & CORs | Import DMRs Perform Import Check Results | Download Blank DMR Form

Session Lockout Timer: 29:24

Sign & Submit DMR

Use this page to sign and submit the selected DMR. Confirm your intention to submit by filling the checkbox in the Include in Submission column. Perform the submission by completing the signature fields at the bottom of the page.

Include in Submission	Add COR and Attachments to Email Notification	View Completed DMR	Permit ID	Facility	Permitted Feature	Discharge #	Discharge Description	Monitoring Period End Date	DMR Due Date	Status
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	KY0100909	PILOT TRAVEL CENTER #041	001	001-1	STORMWATER RUNOFF	10/31/11	11/28/11	NetDMR Validated

I certify under penalty of law that this submission was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. By entering my password and security question answer and pressing the Submit button, I agree that:

By entering my password and security question answer and pressing the Submit button, I agree that:

1. I am Shawn Hokenson.
2. I have not violated any term in my Electronic Signature Agreement.
3. I am otherwise without any reason to believe that the confidentiality of my password has been compromised now or at any time prior to this submission.
4. I have the authority to submit these data on behalf of the listed facilities.
5. This action constitutes an electronic signature equivalent to my written signature.
6. I understand that this attestation of fact pertains to the implementation, oversight, and enforcement of a federal environmental program and must be true to the best of my knowledge.

What is your mother's maiden name?

Password

To sign and submit DMRs, Check all DMRs to Sign and Submit, enter your security information and click Submit. You should check the box to receive a PDF of the Copy of Record with your confirmation email (recordkeeping). **In NetDMR TEST, this submission DOES NOT SATISFY your permit required DMR Reporting.**

NetDMR

Search All DMRs & CORs | Import DMRs Perform Import Check Results | Download Blank DMR Form

Session Lockout Timer: 29:49

View All CORs | Download All CORs in XML | Download All CORs in PDF | Download COR Signature Public Key | DMR/COR Search Results

Submission Confirmation - ee940e6e-f472-4b66-9cd7-a9b9a1edf3c2

Your submission has been received.

Permit ID	Facility	Permitted Feature	Discharge #	Discharge Description	Monitoring Period End Date	DMR Due Date	View COR	Download COR in XML	Download COR in PDF	Download COR Signature
KY0100909	PILOT TRAVEL CENTER #041	001	001-1	STORMWATER RUNOFF	10/31/11	11/28/11				

Take Home

1. Submit accurate and current information in applications.
2. Submitting eNOI for General Permit does not grant coverage.
3. Do not submit BMPP or SWPPP but keep on-site.
4. Monitor and update BMPP and SWPPP frequently.
5. eForms will time-out so save frequently; and keep the unusually long transmittal ID number.
6. Verify coverage letter and Permit and DMR are the same.
7. Be aware of laboratory's reporting units when completing DMR.
8. Submit Notice of Termination at end of project (eNOT).
9. All waters are not equal.



Questions?

- 502/564-3410
 - NetDMR: Crystal Thompson
 - ePortal: Erin Lawson
- SWPBSupport@KY.GOV
- www.water.ky.gov/permitting
- EEC.KORA@KY.GOV
- DOWPublicNotice@KY.GOV



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